

# EUROPEAN PATENT OFFICE

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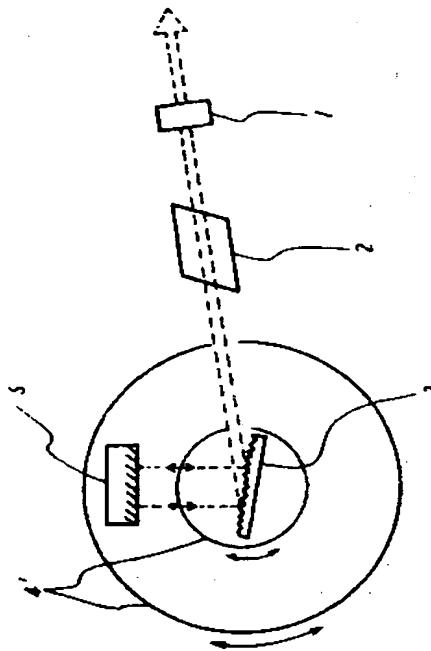
APPLICATION DATE : 11-03-80  
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APPLICANT : NEC CORP;

INVENTOR : OOTA JUN;

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TITLE : LASER DEVICE



**ABSTRACT :** PURPOSE: To readily select the wavelength of a laser device with one sheet of diffraction grating by constructing the diffracted light via the diffraction grating to totally reflect with a full reflecting mirror rotating at twice the rotating angle of the grating and increasing the reflectivity of the grating in wide wavelength band.

CONSTITUTION: A laser device is composed of an output mirror 1 and a full reflecting mirror 5 to select the wavelength resonating in a diffraction grating 3. When the wavelength is selected, the diffraction grating 3 is rotated, and the mirror 5 is rotated simultaneously at the angle twice the grating 3 via the coaxial double rotary base 4'. The reflectivity of the grating 3 can be increased in wide wavelength band, and the selection of the wavelength can be readily conducted with one sheet of rotary grating 3.

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